Index to Volume 54

ROENTGEN DIAGNOSIS

Nervous system

Encephalographic changes in the axial pressure cone syndrome 369
Intracranial pressure changes during carotid angiography 379

Digestive tract

Effect on the gallbladder of Tween 80 17
Respiratory kymography in acute abdominal conditions 49
The small intestine transit time with a physiologic contrast medium 334
Width of the common bile duct before and after morphine studied by cholegraphy . . 345
Influence of contrast media for cholegraphy on blood pressure and pulse rate 353
Calcium para-oxy-bensoicum and glucose in cholegraphy with Biligrafin 365
Course of ulcerative colitis 397
Solu-Biloptin (SH 550) as a contrast medium for peroral cholegraphy 417
Intraluminal duodenal diverticulum 439

Heart and Vessels (incl. lymphatic vessels)

Circulatory disturbances during cerebral angiography 3
Electrokymographic changes in myocardial infarction 81
Left cardiac ventriculography in diagnosis of mitral insufficiency 170
Impression of the left atrium on the superior vena cava and sinus of the venae cavae . 265
Angiography in osteoid osteoma 327
Intracranial pressure changes during carotid angiography 379
Septal defect between the left ventricle and the right atrium diagnosed by cardioangiography 393
Malformation and multiple stenoses of the pulmonary arteries 449

Lungs, Pleura, Mediastinum and Chest walls

Respiratory kymography in acute abdominal conditions 49
Experimental pulmonary edema 97
Ossifying pneumonitis and calcinosis 195

Bones and Joints

Skull changes in dystrophia myotonica 22
Parosteal osteogenic sarcoma 29
Fractures at the tuberosity of the fifth metatarsal bone in children 90
Tendinitis calcarea of the extensor origin at the elbow 120
Instability of the pubic symphysis and congenital dislocation of the hip in newborns . 123
Two vascular grooves of the external table of the skull 186
Bone lesions in rats exposed to external irradiation from gamma rays 273
Angiography in osteoid osteoma 327
Chondrosarcoma of the bones of the hand 426

Ear, Nose and Throat

Different projections in diagnosing cholesteatoma 177

Uro-Genital system

Double-contrast cystography 161
Suprapubic micturition cystography in children 204
Perivesical insufflation of gas for determination of bladder wall thickness 241
Correlation of urography and tests of renal function 433

RADIOTHERAPY

Complication in cobalt bead treatment of cancer of the bladder 45
Irradiation of liposarcoma 225
Statistical aspects of planning clinical experiments in cancer therapy 289
Cataract as a late sequel of contact roentgen therapy of angiomas in children 443
Cancer of the middle ear and mastoid 460

RADIOACTIVE ISOTOPES

Complication in cobalt bead treatment of cancer of the bladder 45
Calculator for determining activities of specimens from their observed count-rates . . . 153
Elimination of radiostrontium 305
Venous transport of Na^{22} from healing fractures in the rabbit tibia 469

RADIOPHYSICS

Pinhole methods in evaluation of radiation from roentgen tubes 41
Miniature semiconductor dose rate meter 69
Distribution of backscatter radiation from slabs of water, brass and lead irradiated by photons between 50 and 250 keV 129
Ovary dose in diagnostic roentgen procedures 296

MICRORADIOGRAPHY

Determination of inorganic and organic material in mineralized tissues 209

RADIOBIOLOGY

Whole-body roentgen irradiation. Effects on the rat neurohypophysis 220
Brain lesions produced by high energy protons 251
Bone lesions in rats exposed to external irradiation from gamma rays 273

TECHNIQUE

Roentgen examination

Pinhole methods in evaluation of radiation from roentgen tubes 41
Respiratory kymography in acute abdominal conditions 49

Contrast media

Circulatory disturbances during cerebral angiography 3
Effect on the gallbladder of Tween 80 17
Influence of contrast media for cholegraphy on blood pressure and pulse rate 353
Solu-Biloptin (SH 550) as a contrast medium for peroral cholegraphy 417

Radiotherapy

High-voltage and ray-proof roentgen equipment for irradiation of small objects . . . 483

Protection and Injuries

Iron-ore concrete in radiation protection 410
Strahlengefährdung beim Gebrauch transportabler Bildverstärker 489
Radiation hazards attending use of transportable image intensifiers 492
Radiation hazard connected with the use of image intensifier 495

CANCER STATISTICS

Statistical aspects of planning clinical experiments in cancer therapy 289

MISCELLANEOUS

Holger Werfel Scheuermann in memoriam 1
Karolinska Institutet 150 years 321

BOOK REVIEWS

X-ray diagnosis of the alimentary tract in infants and children 157
La flebografia vertebrale transomatica 158
Crâne et face dans la maladie de Paget 159
Klinik und Praxis der Urologie. Band I und II 159
Röntgendiagnostik beim Neugeborenen und Säugling 160
Strahlenbelastung und Strahlenschutz in der pädiatrischen Röntgendiagnostik 240
Health physics instrumentation 316
Elektrokymography 316
Klinische Röntgendiagnostik chirurgischer Erkrankungen 318
Diagnosis of congenital heart disease. 2nd edition 318
Das Röntgenschichtbild 319
Angiographic studies of the anatomy of single and multiple renal arteries 319
Radiologic pelvimetry 496
Transversale Tomographie 496

List of Authors

(r) indicates 'reviewed only'

Aakhus, Trygve, 29
Alfthan, O., 45
Andersson, Bengt, 251
Andrén, Lars, 17, 123

Bartley, Osborne, 81, 161, 241
Baserga, R., 273
Bek, V., 443
Berkmen, Y., 195
Berteig, Leiv, 296
Boag, J. W., 289
Boijsen, Erik, 319 (r)
Borell, Ulf, 496 (r)
Borgström, Karl-Eric, 97
Bryndorf, J., 204
Brünner, S., 177

Carlqvist, Birger, 305
Cater, Donald B., 273
Caughey, John Egerton, 22
Colombati, M., 158 (r)

Devik, Finn, 296
Di Chiro, Giovanni, 22
Diethelm, L., 489

Eckerbom, Hans, 241
Edling, N. P. G., 397, 433
Edvall, C. A., 433
Egan, John W., 225
Eide, Oddvar, 29
Eklöf, O., 397

Fernström, Ingmar, 496 (r)
Fischgold, H., 159 (r)
Flatby, Jon, 296
Friedman, Milton, 225

Garusi, G. F., 170, 265
Gebauer, A., 319 (r)
Gilmore, John H., 195
Göthman, Lars, 469
Gremmelmaier, Rolf, 69
Gür, H., 195

Hadzidakis, A. A., 195
Hammarlund-Essler, E., 209
Hammer, Franz, 496 (r)
Handloser, John S., 316 (r)
Hartung, K., 240 (r)
Heckmann, Karl, 316 (r)
Helander, Carl-Gustaf, 161, 433
Hertz, Carl Hellmuth, 69
Hettinger, G., 129
Hoh, C. F., 209
Hopsu, V. K., 220

Ising, Ulla, 97

Jakobson, Elmar, 426
Jensen, Gert, 177
Jespersen, Chr., 177
Jonson, Mats, 345
Jonsson, B., 318 (r)
Jötten, G., 489

Kågström, Erik, 3, 379
Karcher, Hermann, 318 (r)
Karnell, Johan, 449
Kjellberg, S. R., 318 (r)
Kockum, Jörgen, 492
Köhler, Rolf, 439

Lagerlöf, H., 334
Larsson, Börje, 251
Leksell, Lars, 251
Lentz, W., 489
Lidén, Kurt, 492
Lièvre, J. A., 159 (r)
Liliequist, Bengt, 369
Lindbom, Åke, 327
Linder, Erland, 97
Lindgren, Erik, 321
Lindgren, Percy, 3, 379
Lindström, Bo, 209
Lindvall, Nils, 327
Lisco, H., 273
Liversage, W. E., 153
Lunderquist, Anders, 97

Mair, William, 251
Mannheimer, Edgar, 318 (r)
Marcozzi, G., 158 (r)
Maruyama, Yosh, 186
Mattsson, Ove, 334
Messinetti, S., 158 (r)
Muntean, E., 319 (r)
Müssbichler, Herbert, 90

Nelson, Arne, 305
Nordenström, Björn, 393
Norman, O., 492
Novek, Jaan, 365

Oberdalhoff, Hans, 318 (r)
Omnell, Karl-Åke, 209
Orell, S. R., 449
Ovenfors, Carl-Olof, 393

Perman, Gunvor, 334

Rexed, Bror, 251
Rosendal, Thomas, 1
Rostgaard Christensen, Erik, 204
Rudhe, Ulf, 318 (r)

Saltzman, Georg-Fredrik, 353, 417
Sandoe, E., 204
Saracca, L., 158 (r)
Schmidt, Sam, 49
Schunk, Herbert, 186
Singelton, Edward B., 157 (r)
Söderberg, Gunnar, 327
Sørensen, Henning, 460
Soter, Constantine, 195
Sourander, Patrick, 251
Spjut, Harlan J., 327, 426
Staehler, W., 159 (r)
Stokke, Torvald, 29
Stutz, Ernst, 319 (r)
Sundström, Karl-Anders, 353

Talanti, S., 220
Theander, Georg, 17
Thoraeus, R., 410, 483
Tori, Giulio, 170
Törnell, Gunnar, 3
Tranter, F. W., 495

Wahlgren, F., 449
Weston, W. J., 120
Vieten, Heinz, 318, 319 (r)
Wolf, Hermann G., 160 (r)
Völkel, L., 489
Voutilainen, Antero, 45, 220
Vourinen, Pekka, 41

Zahn, K., 443

Å, see **A**

Ö, see **O**

,204
353,
r)
53
)

Contents of Volume 54

Holger Werfel Scheuermann in memoriam.
By Th. Rosendal 1
Circulatory disturbances during cerebral angiography. An experimental evaluation of certain contrast media.
By Erik Kågström, Percy Lindgren and Gunnar Törnell 3
Emptying effect on the gallbladder of Tween 80.
By Lars Andrén and Georg Theander 17
Skull changes in eighteen cases of dystrophia myotonica.
By Giovanni Di Chiro and John Egerton Caughey 22
Parosteal osteogenic sarcoma.
By Trygve Aakhus, Oddvar Eide and Torvald Stokke 29
Reliability of pinhole methods in evaluation of radiation from emission area in roentgen tubes.
By Pekka Vuorinen 41
A complication in cobalt bead treatment of cancer of the bladder. Report of a case . .
By A. Voutilainen and O. Alfthan. 45
Respiratory kymography in acute abdominal conditions.
By Sam Schmidt 49
Miniature semiconductor dose rate meter.
By Carl Hellmuth Hertz and Rolf Gremmelmaier 69
Electrokymographic changes in myocardial infarction.
By Osborne Bartley 81
Fractures at the tuberosity of the fifth metatarsal bone in children.
By Herbert Müssbichler 90
Experimental pulmonary edema.
By Karl-Eric Borgström, Ulla Ising, Erland Linder and Anders Lunderquist 97
Tendinitis calcarea of the extensor origin at the elbow with effusion of the joint.
By W. J. Weston 120
Instability of the pubic symphysis and congenital dislocation of the hip in newborns. The possible aetiologic role of maternal hormones.
By Lars Andrén 123
Angular and spectral distributions of backscatter radiation from slabs of water, brass, and lead irradiated by photons between 50 and 250 keV.
By Gunnar Hettinger 129
A calculator for determining activities of specimens from their observed count-rates.
By W. E. Liversage 153
Book reviews 157
Double-contrast cystography in tumors of the urinary bladder.
By Osborne Bartley and Carl Gustaf Helander 161
Left cardiac ventriculography by means of percutaneous catheterization of a femoral artery in the diagnosis of mitral insufficiency.
By G. Tori and G. F. Garusi 170
Value of different projections in diagnosing cholesteatoma.
By Gert Jensen, Chr. Jespersen and S. Brünner 177
Two vascular groves of the external table of the skull which simulate fractures.
By Herbert Schunk and Yosh Maruyama 186
Ossifying pneumonitis and calcinosis. Report of a case.
By Constantine Soter, Y. Berkmen, H. Gür, A. A. Hadzidakis and John H. Gilmore 195

Suprapubic micturition cystography with constant filling in children.
By J. Bryndorf, E. Rostgaard Christensen and E. Sandøe 204
Method for non-destructive determination of inorganic and organic material in mineralized tissues.
By K.-Å. Omnell, B. Lindström, C. F. Hoh and E. Hammarlund-Essler 209
Effects of whole-body roentgen irradiation on the neurosecretory material of the rat neurohypophysis.
By V. K. Hopsu, S. Talanti and A. Voutilainen 220
Irradiation of liposarcoma.
By Milton Friedman and John W. Egan 225
Book review 240
Perivesical insufflation of gas for determination of bladder wall thickness in tumours of the bladder.
By Osborne Bartley and Hans Eckerbom 241
Lesions in the depth of the brain produced by a beam of high energy protons.
By Lars Leksell, Börje Larsson, Bengt Andersson, Bror Rexed, Patrick Souander and William Mair 251
Impression of the left atrium on the superior vena cava and sinus of the venae cavae in mitral disease.
By G. F. Garusi 265
Radiographic appearances of bone lesions in rats exposed to local external irradiation from gamma rays.
By D. B. Cater, R. Baserga and H. Lisco 273
Statistical aspects of planning clinical experiments in cancer therapy.
By J. W. Boag 289
Determination of the ovary dose in diagnostic roentgen procedures.
By Finn Devik, Jon Flatby and Leiv Berteig 296
Attempts to influence the elimination of radiostrontium.
By Birger Carlqvist and Arne Nelson 305
Book reviews 316
Karolinska Institutet in Commemoration of the 150th Anniversary.
By Erik Lindgren 321
Angiography in osteoid osteoma.
By Å. Lindbom, N. Lindvall, G. Söderberg and H. Spjut 327
The small intestine transit time with a physiologic contrast medium.
By O. Mattsson, Gunvor Perman and H. Lagerlöf 334
Width of the common bile duct before and after morphine studied by cholegraphy.
By Mats Jonson 345
The influence of different contrast media for cholegraphy on blood pressure and pulse rate.
By Georg-Fredrik Saltzman and Karl-Anders Sundström 353
Calcium para-oxy-bensoicum and glucose as adjuvants in cholegraphy with Biligrafin. An experimental study in the rabbit.
By Jan Novek 365
Encephalographic changes in the axial pressure cone syndrome.
By Bengt Liliequist 369
Changes in intracranial pressure during carotid angiography. An experimental investigation in cats.
By Erik Kågström and Percy Lindgren 379
Septal defect between the left ventricle and the right atrium diagnosed by cardioangiography.
By Björn Nordenström and Carl-Olof Ovenfors 393

A roentgenologic study of the course of ulcerative colitis.
By N. P. G. Edling and O. Eklöf 397
Iron-ore concrete in radiation protection.
By R. Thoraeus 410
Solu-Biloptin (SH 550) as a contrast medium for peroral cholegraphy.
By Georg-Fredrik Saltzman 417
Chondrosarcoma of the bones of the hand. Report of 3 cases.
By Elmar Jakobson and Harlan J. Spjut 426
Correlation of urography and tests of renal function.
By N. P. G. Edling, C. A. Edvall and C. G. Helander 433
Intraluminal duodenal diverticulum. Report of a case.
By Rolf Köhler 439
Cataract as a late sequel of contact roentgen therapy of angiomas in children.
By V. Bek and K. Zahn 443
Malformation and multiple stenoses of the pulmonary arteries with pulmonary hypertension.
By S. R. Orell, J. Karnell and F. Wahlgren 449
Cancer of the middle ear and mastoid.
By Henning Sørensen 460
Venous transport of Na^{22} from healing fractures in the rabbit tibia.
By Lars Göthman 469
A high-voltage and ray-proof roentgen equipment for irradiation of small and medium-sized objects.
By R. Thoraeus 483
Strahlengefährdung beim Gebrauch transportabler Bildverstärker.
Von L. Diethelm, G. Jötten, W. Lentz und L. Völkel 489
Radiation hazards attending the use of transportable image intensifiers.
By J. Kockum, K. Lidén and O. Norman 492
Radiation hazard connected with the use of image intensifier fitted in conventional roentgen units. A comment.
By F. W. Tranter 495
Book reviews 496

ra
I.
II.
III
IV
V.
VI
VI
VI
IX
X.
XI
XI
XI
XI
XV
XV
XV
XI
XX
XX
XX

List of Supplements to Acta Radiologica

Nos 1—200.
(Issued by December 1960)

The supplements are published from time to time and are not included in the subscription rate. Prices and year of publication of numbers already issued are detailed below.

I. Åke Åkerlund: Röntgenologische Studien über den Bulbus duodeni. 1921. **(Out of print.)**

II. Gösta Forssell: On the permanency of radiological healing in malignant tumours. 1928. *Price bound Sw. Kr. 10: —; unbound Sw. Kr. 8: —.*

III. An account of the Second International Congress of Radiology, Stockholm, 1928. *Price Sw. Kr. 15: —.*

IV. Teaching and training in medical radiology. Papers delivered at the Second International Congress of Radiology. 1930. *Price Sw. Kr. 20: —.*

V. Catalogue des Portraits des Membres du Deuxième Congrès International de Radiologie à Stockholm, 23—27 Juillet 1928. 2ème Edition, complétée. *Price Sw. Kr. 5: —.*

VI. Gunnlaugur Claessen: The roentgen diagnosis of echinococcus tumors. 1928. **(Out of print.)**

VII. Martin Odin and Gösta Runström: Iodized oils as an aid to the diagnosis of lesions of the spinal cord and a contribution to the knowledge of adhesive circumscribed meningitis. 1928. *Price Sw. Kr. 15: —.*

VIII. Carl Krebs: The effect of roentgen irradiation on the interrelation between malignant tumors and their hosts. 1929. *Price Sw. Kr. 8: —.*

IX. Jens Juul: Experimental studies on roentgen treatment of malignant tumors. 1929. *Price Sw. Kr. 8: —.*

X. Carl Krebs, H. C. Rask-Nielsen and Aage Wagner: The origin of lymphosarcomatosis and its relation to other forms of leucosis in white mice. 1930. *Price Sw. Kr. 8: —.*

XI. Elis Berven: Malignant tumors of the tonsil. 1931. *Price Sw. Kr. 22: —.*

XII. Erik Lysholm: Apparatus and technique for roentgen examination of the skull. 1931. *Price Sw. Kr. 25: —.*

XIII. S. Bakke: Röntgenologische Beobachtungen über die Bewegungen der Wirbelsäule. 1931. *Price Sw. Kr. 10: —.*

XIV. R. Sievert: Eine Methode zur Messung von Röntgen-, Radium- und Ultrastrahlung nebst einigen Untersuchungen über die Anwendbarkeit derselben in der Physik und der Medizin. 1932. *Price Sw. Kr. 20: —.*

XV. R. Thoraeus: A study of the ionization method for measuring the intensity and absorption of roentgen rays and of the efficiency of different filters used in therapy. 1932. *Price Sw. Kr. 10: —.*

XVI. T. Dale: Der Wert der Röntgenuntersuchung in der Lungendiagnostik. 1932. *Price Sw. Kr. 10: —.*

XVII. G. Runström: A roentgenological study of acute and chronic otitis media. 1933. *Price Sw. Kr. 20: —.*

XVIII. R. Schatzki: Reliefstudien an der normalen und krankhaft veränderten Speiseröhre. 1933. *Price Sw. Kr. 20: —, bound 23: —.*

XIX. R. Bull Engelstad: Über die Wirkungen der Röntgenstrahlen auf die Lungen. 1934. *Price Sw. Kr. 10: —.*

XX. I. Hermodsson: Röntgenologische Studien über die traumatischen und habituellen Schultergelenkverrenkungen nach vorn und nach unten. 1934. **(Out of print.)**

XXI. B. Faber: Röntgenbiologische Untersuchungen mit Gewebekulturen als Indikator. 1935. *Price Sw. Kr. 8: —.*

XXII. W. Magnusson: Skin cancer. 1935. *Price Sw. Kr. 20: —.*

XXIII. H. Ahlbom: Mucous- and salivary-gland tumours. 1935. *Price Sw. Kr. 20: —.*
XXIV. E. Lysholm: Das Ventrikulogramm. I. Teil. 1937. *Price Sw. Kr. 10: —.*
XXV. E. Lysholm: Das Ventrikulogramm. II. Teil. 1937. *Price Sw. Kr. 15: —.*
XXVI. E. Lysholm: Das Ventrikulogramm. III. Teil. 1935. *Price Sw. Kr. 12: —.*
XXVII. H. Hellmer: Röntgenologische Beobachtungen über die Ossifikation der Patella. 1935. *Price Sw. Kr. 10: —.*
XXVIII. F. Knutsson: Urethrography. 1935. *Price Sw. Kr. 12: —.*
XXIX. O. Kaalund-Jørgensen: Experimental studies on a transmissible myelomatosis (reticulosis) in mice. 1936. *Price Sw. Kr. 12: —.*
XXX. K. Lindblom: A roentgenographic study of the vascular channels of the skull. 1936. *Price Sw. Kr. 10: —.*
XXXI. S. Grettve: Morphologische und tierexperimentelle Studien über das Schleimhautrelief des Magen-Darmkanals. 1936. *Price Sw. Kr. 10: —.*
XXXII. H. Wulff: Die Zuverlässigkeit der Röntgendiagnostik — besonders hinsichtlich des Wertes der Urographie — und die Prognose bei Nieren- und Harnleitersteinen. 1936. *Price Sw. Kr. 15: —.*
XXXIII. J. Frimann-Dahl und G. Waaler: Röntgenologische und pathologisch-anatomische Studien über den tuberkulösen Primärkomplex. 1936. *Price Sw. Kr. 9: —.*
XXXIV. S. Ribbing: Studien über hereditäre, multiple Epiphysenstörungen. 1937. *Price Sw. Kr. 8: —.*
XXXV. A. Renander: Le traitement radiologique de l'actinomycose. 1937. *Price Sw. Kr. 8: —.*
XXXVI. G. Jönsson: Malignant tumors of the skeletal muscles, fasciæ, joint capsules, tendon sheaths and serous bursæ. 1938. *Price Sw. Kr. 20: —.*
XXXVII. B. Lilja: Displacement of the calcified lineal body in roentgen pictures as an aid in diagnosing intracranial tumors. An anthropometrical statistical analysis. 1939. *Price Sw. Kr. 10: —.*
XXXVIII. King Gustaf V's Stockholm Jubilee Clinic. 1939. *Price Sw. Kr. 8: —.*
XXXIX. G. Fr. Petersen: Röntgenologische Untersuchungen über Arteriosklerose. 1941. *Price Sw. Kr. 8: —.*
XL. T. Denstad: Über die Bedeutung der Röntgenuntersuchung für die Kardiologie. 1941. *Price Sw. Kr. 8: —.*
XLI. A. Renander: The roentgen density of the cystine calculus. 1941. *Price Sw. Kr.* 15: —.
XLII. S. Welin: Beiträge zur Röntgendiagnostik der Otitis media acuta und ihrer Komplikationen im Schläfenbein. 1941. *Price Sw. Kr. 20: —.*
XLIII. S. R. Kjellberg: Hystero-Salpingo-Pelvigraphie. 1942. *Price Sw. Kr. 15: —.*
XLIV. Carl Krebs, Oskar Thordarson and Johannes Harbo: Experiments with mammalian sarcoma extracts in regard to cell-free transmission and induced tumor immunity. 1942. **(Out of print.)**
XLV. J. Torgersen: The muscular build and movements of the stomach and duodenal bulb. 1942. *Price. Sw. Kr. 15: —.*
XLVI. Torbjörn Caspersson and Lars Santesson: Studies on the protein metabolism of the epithelial tumours. 1942. *Price Sw. Kr. 12: —.*
XLVII. Olle Olsson: Die Urographie bei der Nierentuberkulose. 1943. *Price Sw. Kr. 15*: —.
XLVIII. Bertil Ebenius: Cancer of the lip. 1943. *Price Sw. Kr. 20: —.*
XLIX: Arne G. Forssberg: Studien über einige biologische Wirkungen der Röntgen- und *γ*-Strahlen, insbesondere am Phycomyces blakesleeanus. 1943. *Price Sw. Kr. 15: —.*
L. Eivind Stokkeland: Radiotherapy in actinomycosis. 1943. *Price Sw. Kr. 8: —.*
LI. Jens Munck Nordentoft: The value of the barium enema in the diagnosis and treatment of intussusception in children. 1943. *Price Sw. Kr. 15: —.*
LII. Torfinn Denstad: The radiosensitivity of the bone marrow. 1943. *Price Sw. Kr. 15: —.*

LIII. RAGNAR STEINERT: Renal tuberculosis and roentgenologic examination. 1943. *Price Sw. Kr. 15: —.*

LIV. SVEN HULTBERG: Untersuchungen über die Röntgennahbestrahlung. 1943. *Price Sw. Kr. 15: —.*

LV. MAGNUS STRANDQVIST: Studien über die kumulative Wirkung der Röntgenstrahlen bei Fraktionierung. 1944. *Price Sw. Kr. 25: —.*

LVI. ARNE ENGESET: Cerebral angiography with perabrodil (carotis angiography). 1944. **(Out of print.)**

LVII. STURE RÖDÉN: On cancer of the breast, with special reference to the results of different methods of treatment. 1944. *Price Sw. Kr. 8: —.*

LVIII. NILS P. G. EDLING: Urethrocystography in the male with special regard to micturition. 1945. *Price Sw. Kr. 20: —.*

LIX. BENGT SYLVÉN: Ester sulphuric acids of high molecular weight and mast cells in mesenchymal tumors. 1945. *Price Sw. Kr. 15: —.*

LX. SVEN JOHNSSON: A contribution to the diagnostics of nephromata. 1946. *Price Sw. Kr. 15: —.*

LXI. BENGT S. HOLMGREN: Inkonstante Hypopharynxdivertikel. Eine röntgenologische Untersuchung. 1946. *Price Sw. Kr. 15: —.*

LXII. HANS-GÖSTA SKARBY: Beiträge zur Diagnostik der Paranephritiden mit besonderer Berücksichtigung des Röntgenverfahrens. 1946. *Price Sw. Kr. 15: —.*

LXIII. ARNE ENGSTRÖM: Quantitative micro- and histochemical elementary analysis by roentgen absorption spectrography. 1946. *Price Sw. Kr. 10: —.*

LXIV. AXEL INGELMAN-SUNDBERG: Rectal injuries following radium treatment of cancer of the cervix uteri. 1947. — **(Out of print.)**

LXV. HANS HELLMER: Intussusception in children. Diagnosis and therapy with barium enema. 1948. *Price Sw. Kr. 15: —.*

LXVI. IVAN HERMODSSON: On the roentgenologic appearance of osteo-arthrosis deformans in the hip joint. 1947. **(Out of print.)**

LXVII. HARRY MOSSBERG: Thrombocytopenia following local radiotherapy. 1947. *Price Sw. Kr. 15: —.*

LXVIII. FOLKE JACOBSSON: Carcinoma of the tongue. 1948. *Price Sw. Kr. 20: —.*

LXIX. ERIK LINDGREN: A pneumographic study of the temporal horn with special reference to tumours in the temporal region. 1948. *Price Sw. Kr. 25: —.*

LXX. OLLE OLSSON: Studies on back-flow in excretion urography. 1948. *Price Sw. Kr. 20: —.*

LXXI. K. G. HANSEN: On the transmission through skin of visible and ultraviolet radiation. 1948. *Price Sw. Kr. 8: —.*

LXXII. INGMAR WICKBOM: Angiography of the carotid artery. 1948. *Price Sw. Kr. 25: —.*

LXXIII. H. GLADNIKOFF: A roentgenographic study of the mediastinum in health and primary pulmonary carcinoma. 1948. *Price Sw. Kr. 15: —.*

LXXIV. K. LINDBLOM: Arthrography of the knee. A roentgenographic and anatomical study. 1948. *Price Sw. Kr. 20: —.*

LXXV. SIGFRID ARNELL: Myelography with water-soluble contrast. 1948. *Price Sw. Kr. 15: —.*

LXXVI. ARNE NELSON: Determination of physical factors influencing the quality of the radiographic image. 1949. *Price Sw. Kr. 15: —.*

LXXVII. BENGT A. NOHRMAN: Cancer of the breast. A clinical study of 1,042 cases treated at Radiumhemmet, 1936—1941. 1949. *Price Sw. Kr. 15: —.*

LXXVIII. HERMAN LEISSNER: Studies on the classification of carcinoma of the uterus. A patho-anatomical and clinical investigation. 1950. *Price Sw. Kr. 20: —.*

LXXIX. OLOF NORMAN: Hysterography in cancer of the corpus of the uterus. 1950. *Price Sw. Kr. 20: —*

LXXX. ÅKE LINDBOM: Arteriosclerosis and arterial thrombosis in the lower limb. A roentgenological study. 1950. *Price Sw. Kr. 15:* —.

LXXXI. ANDERS SONESSON: Odontogenic cysts and cystic tumours of the jaws. A roentgendiagnostic and patho-anatomic study. 1950. *Price Sw. Kr. 20:* —.

LXXXII. JOHN LIND: Heart volume in normal infants. A roentgenological study. 1950. *Price Sw. Kr. 15:* —.

LXXXIII. ANDREAS HØYER: Abdominal distension and intestinal activity following laparotomy. 1950. *Price Sw. Kr. 15:* —.

LXXXIV. OLOF NORMAN: Studies on the hepatic ducts in cholangiography. 1951. **(Out of print.)**

LXXXV. (85). ARNE FRANTZELL: Soft tissue radiography. Technical aspects and clinical applications in the examination of limbs. 1951. *Price Sw. Kr. 20:* —.

LXXXVI (86). INGEMAR HESSÉN: Roentgen examination of pleural fluid. A study of the localization of free effusions, the potentialities of diagnosing minimal quantities of fluid and its existence under physiological conditions. 1951. *Price Sw. Kr. 20:* —.

LXXXVII (87). STIG RADNER: Vertebral angiography by catheterization. A new method employed in 221 cases. 1951. *Price Sw. Kr. 20:* —.

LXXXVIII (88). LARS LÖNNERBLAD: Transit time through the small intestine. A roentgenologic study on normal variability. 1951. *Price Sw. Kr. 20:* —.

LXXXIX (89). GUNNAR JÖNSSON, BROR BRODÉN and JOHAN KARNELL: Thoracic aortography with special reference to its value in patent ductus arteriosus and coarctation of the aorta. 1951. *Price Sw. Kr. 30:* —.

XC (90). JEAN-PIERRE BUGNION: Lésions nouvelles du poignet. Pseudokystes nécrobiotiques. Kystes par herniations capsulaires. Arthrite chronique dégénérative par ostéochondrose marginale. 1951. *Price Sw. Kr. 20:* —.

XCI (91). JAN ASPLUND: The uterine cervix and isthmus under normal and pathological conditions. A clinical and roentgenological study. 1952. *Price Sw. Kr. 20:* —.

XCII (92). ARNE LINDELL: Carcinoma of the uterine cervix. Incidence and influence of age. A statistical study. 1952. *Price Sw. Kr. 20:* —.

XCIII (93). ERIK ODEBLAD: Contributions to the theory and technique of quantitative autoradiography with P^{32} with special reference to the granulosa tissue of the Graafian follicles in the rabbit. 1952. *Price Sw. Kr. 20:* —.

XCIV (94). SVEN-OLOF BRATTGÅRD and HOLGER HYDÉN: Mass, lipids, pentose nucleoproteins and proteins determined in nerve cells by X-ray microradiography. 1952. *Price Sw. Kr. 15:* —.

XCV (95). OLALLO MORALES and RAGNAR ROMANUS: Urethrography in the male with a highly viscous, water-suluble contrast medium, Umbradil-Viscous U. 1952. *Price Sw. Kr. 20:* —.

XCVI (96). SVEN-OLOF BRATTGÅRD: The importance of adequate stimulation for the chemical composition of retinal ganglion cells during early post-natal development. 1952. *Price Sw. Kr. 20:* —.

XCVII (97). LUCIO DI GUGLIELMO and MARIO GUTTADAURO: A roentgenologic study of the coronary arteries in the living. 1952. *Price Sw. Kr. 20:* —.

XCVIII (98). SIGVARD KAAE: Radiotherapy in cancer of the breast. 1952. *Sw. Kr. 20:* —.

XCIX (99). ROLF KÖHLER: Investigations on backflow in retrograde pyelography. A roentgenological and clinical study. 1953. *Sw. Kr. 20:* —.

100. GUNNAR GORTON: Post-irradiative prophylactic extraperitoneal lymphadenectomy in carcinoma of the uterine cervix. 1953. *Sw. Kr. 20:* —.

101. HERMAN LODIN: The value of tomography in examination of the intrapulmonary bronchi. 1953. *Sw. Kr. 20:* —.

102. SVEN BELLMAN: Microangiography. 1953. *Sw. Kr. 20:* —.

103. INGEMAR BOKSTRÖM: Principles of vertebral tomography. 1953. *Sw. Kr. 20:* —.

104. Francesco Castellano and Giovanni Ruggiero: Meningiomas of the posterior fossa. 1953. *Sw. Kr. 30: —, bound 35: —.*
105. Lorentz Nitter: Changes in the chest roentgenogram in Boeck's sarcoid of the lungs. 1953. *Price Sw. Kr. 25: —*
106. Ture Andersson: Electrokymographic examinations in mitral valve disease. 1953. *Price Sw. Kr. 20: —.*
107. Curt Johanson: The central veins and deep dural sinuses of the brain. An anatomical and angiographic study. 1954. *Price Sw. Kr. 25: —.*
108. Björn Nordenström: Temporary unilateral occlusion of the pulmonary artery 1954. *Price Sw. Kr. 30: —.*
109. Tormod Hauge: Catheter vertebral angiography. 1954. *Price Sw. Kr. 30: —.*
110. Lars Billing: Roentgen examination of the proximal femur end in children and adolescents. 1954. *Price Sw. Kr. 25: —.*
111. Lars Winderen and Johannes Zimmer: Cholesteatoma of the middle ear. 1954. *Price Sw. Kr. 20: —.*
112. Gunnar Moberger: Malignant transformation of squamous epithelium. 1954. *Price Sw. Kr. 25: —.*
113. K. A. Hultborn: The causal relationship between benign epithelial tumors and adenocarcinoma of the colon and rectum. 1954. *Price Sw. Kr. 15: —.*
114. Georg-Fredrik Saltzman: The conventional roentgenogram in the commonest congenital malformations of the heart and great vessels in adults and juveniles. 1954. *Price Sw. Kr. 25: —.*
115. Carl Deden: Cancer cells in urinary sediment. 1954. *Price Sw. Kr. 20: —.*
116. Seventh International Congress of Radiology. The invited papers. The Radiobiology Symposium in Århus and The Reports from the International Commissions. 1954. *Price Sw. Kr. 40: —.*
117. Reports submitted to the International Commission on Radiological Units (ICRU), Copenhagen, July 1953. 1954. *Price Sw. Kr. 25: —.*
118. Sven Ullberg: Studies on the distribution and fate of S^{35}-labelled benzylpenicillin in the body. 1954. *Price Sw. Kr. 25: —.*
119. Finn Devik: A study of the local roentgen reaction on the skin of mice, with special reference to the vascular effects. 1955. *Price Sw. Kr. 15: —.*
120. Ove Mattsson: Practical photographic problems in radiography with special reference to high-voltage technique. 1955. *Price Sw. Kr. 30: —.*
121. Diego Carlström: X-ray crystallographic studies on apatites and calcified structures. 1955. *Price Sw. Kr. 25: —.*
122. Ingmar Fernström: Arteriography of the uterine artery. Its value in the diagnosis of uterine fibromyoma, tubal pregnancy, adnexal tumour, and placental site localization in cases of intra-uterine pregnancy. 1955. *Price Sw. Kr. 30: —.*
123. Kristina Ekengren: Roentgenographic diagnosis of genital tuberculosis in the female and roentgenographic effects of antibiotic therapy. 1955. *Price Sw. Kr. 30: —.*
124. K. A. Hultborn, O. Morales and R. Romanus: The so-called shelf tumour of the rectum. 1955. *Price Sw. Kr. 20: —.*
125. Bo Lindström: Roentgen absorption spectrophotometry in quantitative cytochemistry. 1955. *Price Sw. Kr. 30: —.*
126. Lars-Gunnar Larsson: Studies on radioiodine treatment of thyrotoxicosis. With special reference to the behaviour of the radioiodine tracer tests. 1955. *Price Sw. Kr. 25: —.*
127. Olaf Petersen: Precancerous changes of the cervical epithelium in relation to manifest cervical carcinoma. 1955. *Price Sw. Kr. 25: —.*
128. Boyce Worthley, John Tooze, Joan Brown and Robert M. Fry: Dosage estimation in radiotherapy. 1955. *Price Sw. Kr. 25: —.*
129. Gregers Thomsen: Hiatus hernia in children. 1955. *Price Sw. Kr. 25: —.*

130. Åke Gidlund: Development of apparatus and methods for roentgen studies in haemodynamics. 1956. *Price Sw. Kr. 25: —.*
131. Åke Åkerlund: Gösta Forssell 1876—1950. To the memory of his life and work. 1956. *Price Sw. Kr. 15: —.*
132. T. W. Lees: Assessing the curability of cancer. 1956. *Price Sw. Kr. 20: —.*
133. Curt Lagergren: Biophysical investigations of urinary calculi. 1956. *Price Sw. Kr. 25: —.*
134. Ulf Rudhe: Electrokymography with special reference to valvular pulmonary and infundibular stenosis. 1956. *Price Sw. Kr. 30: —.*
135. Sven Erik Englund: Observations on the migration of some labelled substances between the urinary bladder and the blood in the rabbit. 1956. *Price Sw. Kr. 25: —.*
136. Hans Idbohrn: Renal angiography in experimental hydronephrosis. 1956. *Price Sw. Kr. 20: —.*
137. Vidar Backlund: Über die Technik der simultanen Telefilmplanigraphie. 1956. *Price Sw. Kr. 25: —.*
138. Stig Fagerberg: Tomographic studies on the normal and injured knee. 1956. *Price Sw. Kr. 30: —.*
139. Tauno Mannila: On parallax and variations in the stereoscopic image with a view to stereofluoroscopy. 1956. *Price Sw. Kr. 25: —.*
140. Torgny Greitz: A radiologic study of the brain circulation by rapid serial angiography of the carotid artery. 1956. *Price Sw. Kr. 30: —.*
141. Helge Hertz and Thomas Rosendal: Roentgen changes in the cranium in 153 intracranial tumours in children aged 0—15 years. 1956. *Price Sw. Kr. 30: —.*
142. Torsten André: Studies on the distribution of tritium-labelled dihydrostreptomycin and tetracycline in the body. 1956. *Price Sw. Kr. 25: —.*
143. Carl Einer Gudbjerg: Bronchiectasis. Radiological diagnosis and prognosis after operative treatment. 1957. *Price Sw. Kr. 25: —.*
144. Björn Westin: Experimental studies on the disappearance of radiosodium ions from local deposits in the cavity and in the wall of the vagina of the rat. 1957. *Price Sw. Kr. 30: —.*
145. O. G. A. Berggren: Demographic studies on carcinoma of the uterine cervix in Sweden. 1957. *Price Sw. Kr. 30: —.*
146. Stig Backman: The proximal end of the femur. Investigations with special reference to the etiology of femoral neck fractures. 1957. *Price Sw. Kr. 35: —.*
147. G. F. Bahr: Changes in liver cell elements during stimulated protein synthesis. A cytochemical study. 1957. *Price Sw. Kr. 25: —.*
148. Karl-Åke Omnell: Quantitative roentgenologic studies on changes in mineral content of bone in vivo. 1957. *Price Sw. Kr. 25: —.*
149. Per Westling, Kurt Sundberg and Gunnar Söderberg: Systemic reticuloendothelial granuloma. 1957. *Price Sw. Kr. 25: —.*
150. Treatment of malignant blood diseases by radioactive phosphorus. P. I—II. Ingmar Bergström and Erik Lindgren: P. I. Clinical aspects. 1957. *Price Sw. Kr. 25: —.* Ingmar Bergström: P. II. Hematological aspects. 1957. *Price Sw. Kr. 25: —.*
151. Erik Lindgren: Radiologic examination of the brain and spinal cord. 1957. *Price Sw. Kr. 35: —.*
152. Carl Gustav Helander and Åke Lindbom: Primary tumors of the pelvic bones. A roentgen diagnostic study of eighty-three cases. 1957. *Price Sw. Kr. 25: —.*
153. Otso Kuosmanen: Über das Vorkommen von Hiatushernien und Kardiainsuffizienz in Verbindung mit Pleuraschwarte. 1957. *Price Sw. Kr. 20: —.*
154. B. Sylvén and H. Malmgren: The histological distribution of proteinase and peptidase activity in solid tumor transplants. A histochemical study on the enzymic characteristics of the different tumor cell types. 1957. *Price Sw. Kr. 30: —.*

155. GUNNAR EDSMAN: Angionephrography and suprarenal angiography. A roentgenologic study of the normal kidney, expansive renal and suprarenal lesions and renal aneurysms. 1957. *Price Sw. Kr. 30:* —.

156. BENGT WETTERDAL: Experimental studies on radioactive zinc in the male reproductive organs of the rat. 1958. *Price Sw. Kr. 30:* —.

157. LARS-ERIC LARSSON: Radiation doses to the gonads of patients in Swedish roentgen diagnostics. Studies on magnitude and variation of the gonad doses together with dose reducing measures. 1958. *Price Sw. Kr. 30:* —.

158. HÅKAN ARVIDSSON: Angiocardiographic observations in mitral disease. With special reference to volume variations in the left atrium. 1958. *Price Sw. Kr. 30:* —.

159. PER ÖDMAN: Percutaneous selective angiography of the coeliac artery. 1958. *Price Sw. Kr. 35:* —.

160. JERZY EINHORN: Studies on the effect of thyrotropic hormone on the thyroid function in man. 1958. *Price Sw. Kr. 30:* —.

161. GUNNAR TILLING: The vascular anatomy of long bones. A radiological and histological study. 1958. *Price Sw. Kr. 25:* —.

162. TORSTEN WIDÉN: Renal angiography during and after unilateral ureteric occlusion. A long-term experimental study in dogs. 1958. *Price Sw. Kr. 30:* —.

163. CARL-GUSTAF HELANDER: Nephrographic effect and renal arteriographic damage. An experimental study. 1958. *Price Sw. Kr. 30:* —.

164. H. GLADNIKOFF: Congenital atresia of the small intestine. A roentgenographic study of 24 cases. 1958. *Price Sw. Kr. 25:* —.

165. BROR BRODÉN and JOHAN KARNELL: Coarctation of the aorta. Aortographic studies of the aorta before and after operation. 1958. *Price Sw. Kr. 30:* —.

166. ERIK ÅGREN: Radioactive sulphur as benzidine sulphate. A methodological study with special reference to S^{35}-labelled penicillin in oral surgery. 1958. *Price Sw. Kr. 30:* —.

167. NILS O. BERG and MARTIN LINDGREN: Time dose relationship and morphology of delayed radiation lesions of the brain in rabbits. 1958. *Price Sw. Kr. 30:* —.

168. OLLE KJELLGREN: The radiation reaction in the vaginal smear and its prognostic significance. Studies on radiologically treated cases of cancer of the uterine cervix. 1958. *Price Sw. Kr. 35:* —.

169. BENT SØRENSEN: Late results of radium therapy in cervical carcinoma. A clinical-statistical study on 798 patients treated at the Radium Centre, Copenhagen, during the period 1922—1929. 1958. *Price Sw. Kr. 25:* —.

170. MARTIN LINDGREN: On tolerance of brain tissue and sensitivity of brain tumours to irradiation. 1958. *Price Sw. Kr. 25:* —.

171. OLOV DAHL and K. J. VIKTERLÖF: Dose distributions in arc therapy in the 200 to 250 kV range. Systematic measurements in homogenous phantoms with the beam direction perpendicular to the oscillation axis. 1958. *Price Sw. Kr. 35:* —. (This monograph is in two languages, English and German.)

172. PER ÖDMAN and JAN PHILIPSON: Aortic valvular diseases studied by percutaneous thoracic aortography. 1958. *Price Sw. Kr. 25:* —.

173. ERIK ODEBLAD, BJÖRN WESTIN and SVEN ERIK ENGLUND: Disappearance measurements. Theoretical, technical, biological and medical aspects. 1959. *Price Sw. Kr. 30:* —.

174. LARS BILLING and ERIK SEVERIN: Slipping epiphysis of the hip. A roentgenological and clinical study based on a new roentgen technique. 1959. *Price Sw. Kr. 35:* —.

175. ÅKE HANNGREN: Studies on the distribution and fate of C^{14}- and T-labelled p-aminosalicylic acid (PAS) in the body. 1959. *Price Sw. Kr. 25:* —.

176. LARS BJÖRK: Cineradiographic studies on the Fallopian tubes in rabbits. 1959. *Price Sw. Kr. 25:* —.

177. PEKKA VUORINEN: The roentgenographic slit methods. A survey and analysis of procedures based on the use of a narrow bundle of roentgen rays (scanography). 1959. *Price Sw. Kr. 25:* —.

178. BENGT H. O. ROSENGREN: Determination of cell mass by direct X-ray absorption. 1959. *Price Sw. Kr. 25:* —.

179. S. HULTBERG, O. DAHL, R. THORAEUS, K. J. VIKTERLÖF and R. WALSTAM: Kilocurie cobalt 60 therapy at the Radiumhemmet. Equipment, technique and dose measurements. 1959. *Price Sw. Kr. 35:* —.

180. BENGT LILJA: Motor activity of the stomach. 1959. *Price Sw. Kr.* 25: —.

181. PER AMUNDSEN: The diagnostic value of conventional radiological examination of the heart in adults. (Appendix by R. G. CARPENTER: An account of the statistical analysis of the relative heart volumes of 755 patients in various disease groups). 1959. *Price Sw. Kr. 20:* —.

182. H. M. Truby: Acoustico-cineradiographic analysis considerations with especial reference to certain consonantal complexes. 1959. *Price Sw. Kr. 35:* —.

183. ERIK BOIJSEN: Angiographic studies of the anatomy of single and multiple renal arteries. 1959. *Price Sw. Kr. 30:* —.

184. GUSTAF NOTTER: A technique for destruction of the hypophysis using Y^{90}-spheres. A radiologic, endocrine and histologic study. 1959. *Price Sw. Kr. 35:* —.

185. BENGT LILIEQUIST: The subarachnoid cisterns. An anatomic and roentgenologic study. 1959. *Price Sw. Kr. 35:* —.

186. BENGT LILIEQUIST: Pontine angle tumour. Encephalographic appearances. 1959. *Price Sw. Kr. 30:* —.

187. HOLGER SKÖLDBORN: On the design, physical properties and practical application of small condenser ionization chambers. 1959. *Price Sw. Kr. 30:* —.

188. JENS NIELSEN Anno Aetatis Suae LX. Papers dedicated to Jens Nielsen, professor of radiotherapy at the University of Copenhagen, on his sixtieth anniversary December 19, 1959. *Price Sw. Kr. 40:* —.

189. OLOV DAHL and KARL JOHAN VIKTERLÖF: Attainment and value of precision in deep radiotherapy. Some fundamentals with special reference to moving beam therapy with 200 to 250 kV roentgen rays and cobalt 60 gamma radiation. 1960. *Price Sw. Kr. 35:* —.

190. RUNE SÖREMARK: Distribution and kinetics of bromide ions in the mammalian body. Some experimental investigations using Br^{80m} and Br^{82}. 1960. *Price Sw. Kr. 30:* —.

191. ULF BORELL and INGMAR FERNSTRÖM: Radiologic pelvimetry. 1960. *Price Sw. Kr. 30:* —.

192. NILS LINDVALL: Renal papillary necrosis. A roentgenographic study of 155 cases. 1960. *Price Sw. Kr. 30:* —.

193. PAUL EDHOLM: The tomogram. Its formation and content. 1960. *Price Sw. Kr. 30:* —.

194. RAIMO KIVILUOTO: Pleural calcification as a roentgenologic sign of non-occupational endemic anthophyllite asbestosis. (Mineralogic appendix by OLAVI KUOVO.) 1960. *Price Sw. Kr. 25:* —.

195. SVEN SCHELLER: Roentgenographic studies on epiphysial growth and ossification in the knee. 1960. *Price Sw. Kr. 35:* —.

196. K. A. HULTBORN and Bo TÖRNBERG: Mammary carcinoma. The biologic character of mammary carcinoma studied in 517 cases by a new form of malignancy grading. 1960. *Price Sw. Kr. 35:* —.

197. LARS R. HOLSTI: The mitotic and radioprotective effect of cysteine and lysine in rat. 1960. *Price Sw. Kr. 30:* —.

198. OSBORNE BARTLEY: The isometric relaxation phase of the left ventricle. An electrokymographic study. 1960. *Price Sw. Kr. 35:* —.

199. GUNNAR WILLER VESTBY: Vaso-seminal vesiculography in hypertrophy and carcinoma of the prostate with special reference to the ejaculatory ducts. 1960. *Price Sw. Kr. 35:* —.

200. BJÖRN NORDENSTRÖM: Contrast examination of the cardiovascular system during increased intrabronchial pressure. 1960. *Price Sw. Kr. 30:* —.